AUG 20 1985

Docket No. 50-271

Vermont Yankee Nuclear Power Corporation
ATTN: Mr. Warren P. Murphy
Vice President and Manager
of Operations
RD 5, Box 169
Ferry Road
Brattleboro, Vermont 05301

Gentlemen:

Subject: Pipe Replacement Outage at Vermont Yankee

A meeting was held on July 17, 1985 at 9:00 a.m. at the NRC Region I Office to discuss Vermont Yankee Nuclear Power Corporation plans for the upcoming pipe replacement and refueling outage at the Vermont Yankee Nuclear Power Station. The meeting was requested by the NRC to review Vermont Yankee's plans for controlling the outage activities and to aid NRC Region I planning for inspections during the outage. Also, the meeting was attended by representatives from the Vermont Department of Public Service and Yankee Atomic Electric Company. A list of meeting attendees is enclosed.

Based on the presentations of your staff and subsequent discussions, we understand the outage to involve the following aspects:

1. The outage is planned to begin on September 21, 1985.

2. The 304 stainless steel piping will be removed and replaced in the Recirculation System and the connecting lines of the Residual Heat Removal (RHR) System. The replacement material will be 316 stainless steel - nuclear grade.

3. A revised management structure is being utilized to accomplish the pipe replacement. The Plant Manager will retain full responsibility for the safe operation of the facility and will continue to direct plant staff. A separate project organization has been established reporting to the Project Manager, who reports to the Vice President/Manager of Operations. The project organization is responsible for the design, construction, installation, and testing of the replacement piping. The project organization utilities a matrix management approach and has supervisors for engineering, construction, decon/restoration, quality assurance, and finance/administration. An interface procedure has been written under the station administrative procedures to coordinate interfaces between plant and project personnel.

4. Although Vermont Yankee will exercise primary authority over the pipe replacement, major parts of the work will be contracted. Morrison-Knudsen Co., Inc. (MK) has been contracted to perform the construction work, General Electric Company (GE) has been contracted to perform detailed engineering analyses, and Pacific Nuclear Company has been contracted to perform the piping decontamination.

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5. The project organization has been planning the piping replacement for over a year. This planning time has been utilized to visit all sites that have replaced recirculation system piping and to understand the lessons that were learned during their piping outages. Lessons learned during this planning prompted Vermont Yankee to establish a separate decon/restoration supervisor, to have the construction contractor (MK) perform detailed planning in the drywell during the prior outage (1984), and to eliminate unnecessary jet pump disassembly work.

6. The configuration of the replacement pipe will be similar to the existing design. There will be changes to the piping supports, and the ring header of the Recirculation System will be modified to delete the piping and valves connecting loop A and loop B. (The connecting pipe is no longer permitted to be used.) Other changes will be made to reduce the number of welds and facilitate inservice inspection.

7. Design analysis will be performed to Standard B31.1-1977 to provide a common basis with existing plant design. Fabrication and installation will be performed and inspected to the requirements of the ASME Code, Section III, 1980 Edition through the Summer 1982 Addendum. Preservice examinations will be performed in accordance with the existing Vermont Yankee Inservice Inspection Program.

8. A thorough 10 CFR 50.59 review will be completed for all changes to be performed during the outage prior to initiating the outage.

9. Decontamination of piping to be removed, temporary shielding, mockup training, and other drywell and reactor vessel decontamination will be used to mitigate personnel radiation exposures. The estimated radiation exposure is approximately 1400 man-Rem. The ALARA (As Low As Reasonably Achievable) aspects of the work have been reviewed and will continue to be reviewed as the work progresses by MK, project, and plant ALARA engineers.

10. The current schedule plan calls for two (2) ten hour shifts, six (6) days a week with the back four (4) hours and Sundays to be used for NDE and any critical work that may be necessary. Based on this, the schedule projects the outage to last approximately 32 weeks.

11. The areas of startup testing, security, housekeeping, and fire protection are planned to be performed with expanded staffing under existing plant programs.

The meeting was beneficial and improved our understanding of your planned outage.

Sincerely, Original Signed By:

William S. Dake

for Richard W. Starostecki, Director
Division of Reactor Projects

Enclosure: Meeting Attendees

cc w/encl:
Mr. R. W. Capstick, Licensing Engineer
Mr. W. F. Conway, President and Chief Executive Officer
Mr. J. P. Pelletier, Plant Manager
Mr. Donald Hunter, Vice President
Mr. Cort Richardson, Vermont Public Interest Research Group, Inc.
Public Document Room (PDR)
Local Public Document Room (LPDR)
Nuclear Safety Information Center (NSIC)
NRC Resident Inspector
State of New Hampshire
State of Vermont

bcc w/encl:
Region I Docket Room (with concurrences)
Section Chief, DRP
T. T. Martin
RI Meeting Attendees
S. Ebneter, RI

RI:DPR	RI:DRP	RI:DRP	RI:DRP
Meyer/meo	Tripp	Wenzinger	Starostecki
8/7/85			

OFFICIAL RECORD COPY

PIPE REPLACEMENT MEETING ATTENDEES

Vermont Yankee

J. Gianfrancesco, Project Construction Supervisor
S. Jefferson, Assistant to Plant Manager
B. Leach, Chemistry and Health Physics Supervisor
R. Morrissette, Plant Health Physics
J. Pelletier, Plant Manager
D. Reid, Operations Superintendent
S. Verkasy, Project Decon and Restoration Supervisor
W. Wittmer, Project Manager

Yankee Atomic

J. Hoffman, Project Engineering Supervisor
A. Kadyle, Project Manager
R. Martin, Project Quality Assurance Supervisor

Vermont Department of Public Service

P. Paull, Nuclear Engineer

Nuclear Regulatory Commission

S. Ebneter, Director, Division of Reactor Safety (DRS)
W. Kane, Deputy Director, Division of Reactor Projects (DRP)
E. Wenzinger, Chief, Projects Branch No. 3, DRP
J. Durr, Chief, Engineering Branch, DRS
L. Tripp, Chief, Reactor Projects Section 3A, DRP
W. Pasciak, Chief, BWR Radiological Protection Section, Division of Radiation Safety and Safeguards (DRSS)
G. Meyer, Project Engineer, DRP
H. Gray, Lead Reactor Engineer, DRS
H. Bicehouse, Radiation Specialist, DRSS
L. Myers, Radiation Specialist, DRSS